

# COMBINED INFLUENCE OF $^{137}\text{Cs}$ $\gamma$ -RAYS AND HEAVY METALS ON THE INDICES OF VITALITY OF THE $L_{929}$ -CELLS IN THE CULTURE

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The dependence of changing the viability indexes has been studied for  $L_{929}$  cell line after combined exposure to the concentrations of heavy metals and radionuclide of Cesium. It is established that  $\text{Ba}^{2+}$ ,  $\text{Ni}^{2+}$  and  $\text{Cu}^{2+}$  increased accumulation of  $^{137}\text{Cs}^+$  by the cells. Both  $\text{Pb}^{2+}$  and  $\text{Cu}^{2+}$  inhibit this process. The additive effect has been observed of  $\text{Ni}^{2+}$  with  $^{137}\text{Cs}^+$  and  $\text{Pb}^{2+}$  with  $^{137}\text{Cs}^+$ . It is shown that during the combined actions of  $\text{Cr}^{6+}$  and  $^{137}\text{Cs}^+$  the effect of consistency is not observed.